

## Utah Weekly Pertussis Update

2014 data, through MMWR week ending May 9, 2015 (MMWR week 18)

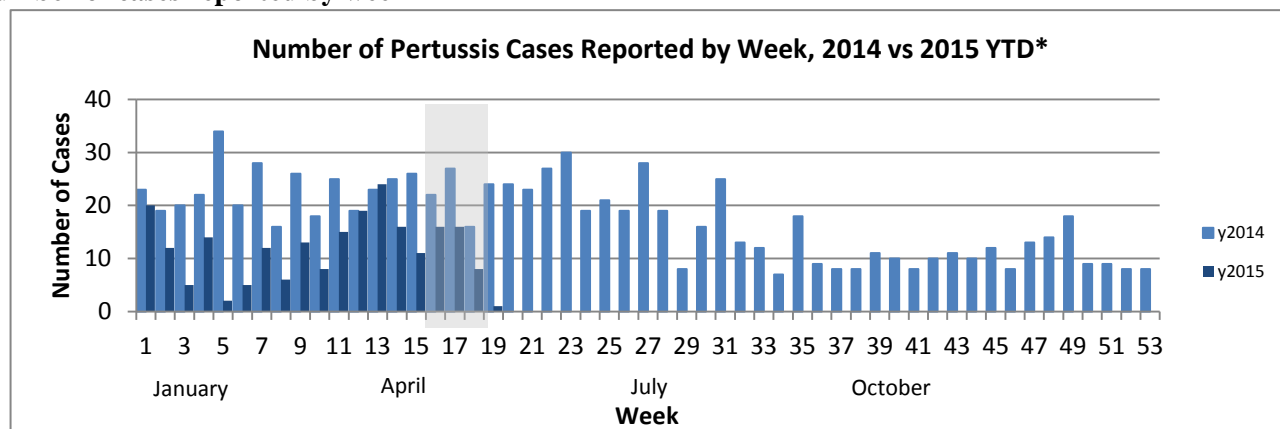
*Data presented in this report are based on current data available and will be subject to change weekly.*

### Data Summary

Total number of cases reported, 2015 year-to-date (YTD)	223	Utah Incidence rate, 2015 year-to-date (YTD) per 100,000 person-years	21.8
Total number of cases reported 2014	926	Utah Incidence rate, 2014 per 100,000 person-years	31.9
Number of cases reported in past week	11	National Incidence rate, 2013 per 100,000 person-years (As of 11/12/2014) *Provisional	8.9
Total number of cases reported, through same time period 2014	409	2015 Hospitalizations	6
Age groups with the highest rates	<1 year	2015 Cases in infants <1 year	25
	1-4 year		

\*National Incidence Rate is updated as released by the Centers for Disease Control and Prevention.

### Number of cases reported by week



\*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

### 2015 Year-to-Date Incidence Rates, By Age

Age (years)	2015 Cases	2013 population	Rate*, **
<1	25	50,052	141.3
1-4	40	203,815	55.5
5-14	52	505,598	29.1
15-24	41	469,436	24.7
25-34	17	440,736	10.9
35-44	23	372,699	17.5
45-54	7	305,312	6.5
55-64	14	269,589	14.7
65+	4	283,635	4.0
Total	223	2,900,872	21.8

\* Rate is calculated per 100,000 person years.

Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

\*\*2013 population estimate update as of 11/4/2014 rates may vary compared to previous reports.

### School Age Incidence Rates, 2015 Year-to-Date

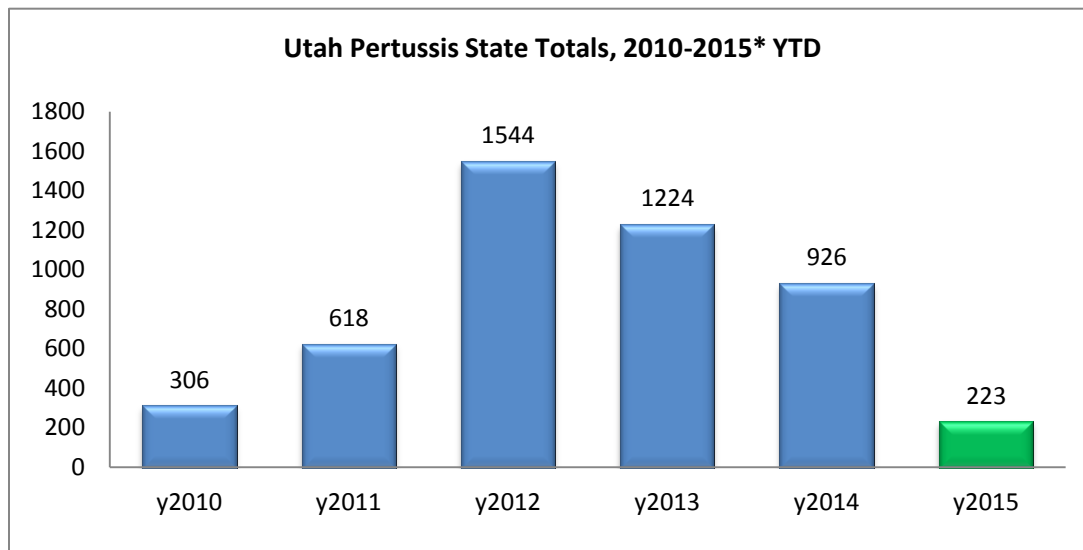
Grade	Age (years)	2015 Cases	2013 Population	Rate*
Preschool	3-4	95	103,602	259.5
Kindergarten	5	5	53,177	26.6
1	6	5	52,869	26.8
2	7	4	52,063	21.7
3	8	11	51,809	60.1
4	9	4	51,080	22.2
5	10	5	50,567	28.0
6	11	5	48,961	28.9
7	12	6	49,008	34.6
8	13	4	48,884	23.2
9	14	3	47,180	18.0
10	15	11	46,321	67.2
11	16	11	45,914	67.8
12	17	9	44,889	56.7

\* Rate is calculated per 100,000 person-years

School age incidence rates were calculated using the average age of a student in each grade.

The high incidence rates in 5th and 6th grade may be due to waning immunity.

### Utah Case Counts of Pertussis, 2008-2014



Pertussis tends to be cyclical. Reports have increased in Utah since 2010, peaked in 2012, and are currently trending downward.

\* 2015 data includes pertussis cases reported year to date. 2010-2014 data reflects cases reported during the entire calendar year for each year.

## Incidence of pertussis by Local Health Department, 2015 YTD

Local Health Department	2015 Cases	Rate*
Bear River	0	0.0
Central Utah	8	29.6
Davis County	13	11.4
Salt Lake Valley	50	13.1
San Juan County	11	207.9
Southeast Utah	1	6.9
Southwest Utah	3	4.0
Summit County	40	294.1
Tooele County	2	9.3
TriCounty	0	0.0
Utah County	30	15.4
Wasatch County	7	74.9
Weber-Morgan	24	27.3

\* Rate is calculated per 100,000 person-years using 2013 Utah population estimates

